

CLAIMS

What is claimed is:

- 3 1. An intake duct (1), particularly for taking air in an internal combustion engine,
4 notably the engine of an automobile, including a first wall (2) made of a
5 porous material, wherein
6 a film (4) is implemented which is sufficiently thin for avoiding any
7 incidence upon the acoustical characteristics, having notably a surface mass
8 of less than 100 grams per square meter; and
9 said film (4) is fixed onto said porous wall (2) such that at least a part
10 of the surface of said film facing said porous wall (2) is not fixed thereto.
- 1 2. An intake duct according to claim 1, wherein said film is fixed to said porous
2 wall following a pattern of points (5) and/or lines (6).
- 1 3. An intake duct according to claim 1, wherein said film is fixed to said porous
2 wall at a plurality of points configured with a small diameter and forming a
3 pattern, which is preferably square.
- 1 4. An intake duct according to claim 1, wherein said film and said porous wall
2 are fixed to one another along lines (6) forming a pattern, which is for
3 instance checked.
- 1 5. An intake duct according to claim 1, wherein said film is located inside said
2 porous wall.
- 1 6. An intake duct according to claim 1, wherein the fixing of said film to said
2 porous wall is performed by way of welding or gluing and preferably by way
3 of ultrasonic welding.
- 1 7. An intake duct according to claim 1, wherein said film (4) is made of
2 polyethylene, polypropylene, polyamide, polyester or another plastic
3 material.

- 1 8. An intake duct according to claim 1, wherein at least 50% of said film surface
- 2 is not fixed to said porous wall.